

Work Order ID 141987

Tuesday, February 23, 2016 11:22:18 AM

141987

Page 1

Item ID: D3600-1

Revision ID:

Item Name: Tie Wrap Mount

Start Date: 2/23/2016 Start Qty: 25.00

Required Date: 3/11/2016 Req'd Qty: 25.00

Reference:

Accept

DAS
13
9-89

N900040100

Setup Start *NS1*

Stop *NS2*

Cust Item ID:

Customer:

Approvals: Process Plan: MLJ Date: FEB 23 2016 Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start *NR1*

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3600	Rev A

100 PURCHASING 0.00

100

Purchasing

Purchasing

PURCHASING

Memo

0.00

Issue P/O: 3460 Purchase Part Number: 7566k25 Supplier: Mc Master
Carr Certificate of conformity is required

50 FEB 23 2016

DAS
13
9-89

110 Receive & Inspect for Damage & Mat'l Certs 0.00

110

Packaging

Packaging

Memo

0.00

Ensure certificate of conformity is attached

50 DAS FEB 26 2016
6
9-89

120 QC6- Inspect dimensions to drawing 0.00

120

QC

Quality Control

Memo

0.00

(50) DAS FEB 26 2016
38
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
		OTHER : ☐							

Work Order ID 141987

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141987

Page 2

Item ID: D3600-1 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Tie Wrap Mount
Start Date: 2/23/2016 Start Qty: 25.00 ***25*** Cust Item ID:
Required Date: 3/11/2016 Req'd Qty: 25.00 ***25*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <u>STOS/A</u>	0.00							
130									
Packaging	Memo	0.00							<u>SU</u> <u>MCS 16-02-29</u>
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							<u>MCS</u> <u>MAR 01 2016</u>
Quality Control									

MCS MAR 01 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
☐ OTHER : _____					

Picklist Print

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Page 1

Work Order ID: 141987

141987

Parent Item: D3600-1

D3600-1

Parent Item Name: Tie Wrap Mount

Start Date: 2/23/2016

Required Date: 3/11/2016

Start Qty: 25.00

Required Qty: 25.00

Comments: IPP Rev:A New Issue 07.03.07 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
7566K25		Purchased	No			100	Each	0.0000	1	25			
7566K25										**			
TIE WRAP MOUNT										SD			

DAS
6
9:59

FEB 26 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____							
Misidentified ☐	☐ Past Due								

DESIGN <i>LE</i>	DRAWN BY <i>LE</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>JB</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3600	REV. A SHEET 1 OF 1
DATE 07.02.12		TITLE TIE-WRAP MOUNT SCALE NTS	
REV A	DATE 07.02.12	DESCRIPTION NEW ISSUE	

RELEASED
07.02.22 *[Signature]*

SPECIFICATION CONTROL DRAWING

DART P/N	DESCRIPTION	MAX TIE WIDTH (in)	MOUNTING STYLE	MCMaster-CARR P/N
D3600-1	OFF-WHITE ADHESIVE BACK TIE-WRAP MOUNT	0.15	ADHESIVE BACK	7566K25

D3600-X TIE-WRAP MOUNT

STOP COPY
 RETURN TO
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 SUBJECT TO AMENDMENT
 WITHOUT NOTICE
 WORK ORDER
 141987 MLS
 16-02-23

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Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO31460
Order Placed By
Chantal Lavoie

Page 1 of 2
02/24/2016

McMaster-Carr Number
7543512-03

Line	Product	Ordered	Shipped
1	92198A672 18-8 Stainless Steel Hex Head Cap Screw, 7/16"-14 Thread, 5" Long, Packs of 1	120 Packs	70
2	7566K25 Cable Tie Mount, Adhesive/Fastener Mount, 4 Way, 0.21" Tie WD. , White, Packs of 50	1 Pack	1
4	92311A639 18-8 Stainless Steel Cup Point Set Screw, 3/8"-24 Thread, 1" Long, Packs of 10	5 Packs	5
5	93695K58 Oil-Resistant Neoprene/Vinyl/Buna-N Foam, Adhesive-Back, 1/4" Thick, 1" Width, 50' L, Black	1 Each	1
6	6718K52 Stainless Steel Industrial-Shape Hose Coupling, Plug, 1/4" NPTF Female, 1/4 Coupling Size	10 Each	10
8	4443A33 12-Volt Lithium Ion Battery for, Milwaukee Cordless Tool	1 Each	1
10	5682A81 Premium Plastic-Handle Screwdriver, 1/4" Tip Width, 4" Long Slotted Round Blade	2 Each	2
11	5443A28 Miniature Inch Combination Wrench, 12 Point, 5/16" Size, 3-1/2" Overall LG. , Chrome Finish	2 Each	2
12	3672K17 Steel Precision V-Groove-Guided Track Roller, Standard Stud, 20 mm Roller Diameter	3 Each	3
13	99142A540 Black-Finish Steel Internal Retaining Ring, for 1-1/2" Bore Diameter, Packs of 25	1 Pack	1
14	8635K171 Medium-Strength Oil-Resistant Buna-N Rubber, Plain Back, 1" Thick, 12" X 12", 50A Durometer	1 Each	1
15	7856K15 Heat-Shrink Tubing, 1/4" ID Before, 1/8" ID After, 4' L, Black	1 Each	1
16	7856K16 Heat-Shrink Tubing, 3/8" ID Before, 3/16" ID After, 4' L, Black	1 Each	1
17	7856K14 Heat-Shrink Tubing, 3/16" ID Before, 3/32" ID After, 4' L, Black	1 Each	1
18	7196K41 Straight-Blade, Three-Blade Female Connector, NEMA 5-15	3 Each	3
19	4429K154 Low-Pressure Brass Threaded Pipe Fitting, 3/4 Pipe Size, 90 Degree Female X Male Elbow	4 Each	4
20	4568K194 Standard-Wall Brass Threaded Pipe Nipple, 3/4 Pipe Size X 3" Length	2 Each	2
21	47865K24 Brass Ball Valve, 3/4" NPT Female Connections	2 Each	2
22	73605T93 Brass Garden Hose-to-Pipe Rigid Adapter, 3/4" Male Garden Hose, 3/4" NPT Female Connections, Packs of 1	2 Packs	2

16/2/26
SL



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO31460

Purchase Order Date 2/23/2016

PO Print Date 2/24/2016

Page Number 1 of 9

Order From :

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

VU-MCM001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

FEB 24 2016

Contact Name

Vendor Phone

330 995 5500

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

Purolator ground ppd

Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extende Pric
1	7/16-14-050C 51524	SS Bolt 7/16 5"K Long (92198A672)	2/26/2016 Yes 2/26/2016	FN	120.00 Each	\$1.74	\$208.8
Line Total:							\$208.8
2	7566K25 AS PER DWG D3600 REV. A B141987	TIE WRAP MOUNT	2/26/2016 Yes 2/26/2016		50.00 Each	\$0.16	\$8.1
Line Total:							\$8.1
3	8672K31 AS PER DWG D4287 REV. A B141988	UHMW U-Channel	2/26/2016 Yes 2/26/2016		32.00 f	\$3.26	\$104.3

16/2/26
S.S

Note:

2/24/2016